ENVIRONMENTAL CHEMISTS

Date of Report: 12/11/00 Date Received: 11/30/00

Project: Metro Self Monitor, PO# M64896

Date Extracted: 12/07/00 Date Analyzed: 12/08/00

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	<u>Chromium</u>	Copper	<u>Nickel</u>	<u>Zinc</u>
M64896	0.86	1.4	1.2	0.19 fb
011182-01				
Method Blank	<0.05	<0.05	<0.05	0.07 lc

fb - The analyte indicated was found in the blank. Its presence may be due to laboratory contamination.

lc - The presence of the compound indicated is likely due to laboratory contamination.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/11/00 Date Received: 11/30/00

Project: Metro Self Monitor, PO# M64896

QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 011182-01 (Duplicate)

	원본도 교육하는 다음하는 조심을	garage Marie	Milly sources	Relative	Median en
	Reporting	Sample	Duplicat	e Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.86	0.93	8	0-20
Copper	mg/L (ppm)	1.4	1.3	7	0-20
Nickel	mg/L (ppm)	1.2	1.3	8	0-20
Zinc	mg/L (ppm)	0.19	0.14	a	0-20

Laboratory Code: 011182-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	very	% Recovery	Acceptance	
Analyte	Units	Level	Result	MS	f sh	MSD	Criteria	RPD
Chromium	mg/L (ppm)	50	0.86	94	573 (1)	97	80-120	3
Copper	mg/L (ppm)	50	1.4	89		95	80-120	7
Nickel	mg/L (ppm)	100	1.2	92	ALA:	91	80-120	1
Zinc	mg/L (ppm)	50	0.19	96		88	80-120	9

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recover	y % Recove	ry Acceptano	е
Analyte	Units	Level	LCS	LCSD	Criteria	RPD
Chromium	mg/L (ppm)	50	101	104	80-120	3
Copper	mg/L (ppm)	50	107	107	80-120	0
Nickel	mg/L (ppm)	100	100	103	80-120	3
Zinc	mg/L (ppm)	50	107	107	80-120	0

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

011182

KT 12/1/20
11:30:00

SAMPLE CHAIN OF CUSTODY

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FORMS/CHECKIN/COC

11/08/00

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

December 11, 2000

DUPLICATE COPY

INVOICE #00ACU1211-2

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M64896 - Results of testing requested by Gerry Thompson for material submitted on November 30, 2000.

FEDERAL TAX ID #(b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

December 11, 2000

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on November 30, 2000 from your Metro Self Monitor, PO# M64896 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kate Trafton

Project Manager

Enclosures ACU1211R.DOC